

1. VYSOTSKII, N. N.; MALYSHEVA, T. S.
 2. USSR (600)
 4. Reflexes
 7. Prognostic significance of unconditioned salivary reflexes following surgery for neoplasms and arachnitis in posterior fossa. Vop. neirokhir. 16 no. 5, 1952.
9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

VYSOTSKIY, N. N., MALYSHEVA, T. S.

Reflexes

Diagnostic and prognostic value of unconditioned salivary reflexes in neurinomas of the auditory nerve, Vest. oto-rin., 14 No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

1. VYSOTSKIY, N. N.; T. S. MALYSHEVA
 2. USSR (600)
 4. Brain-Surgery
 7. Prognostic significance of unconditioned salivary reflexes following surgery for neoplasms and arachnitis in posterior fossa. N. N. Vysotskii, T. S. Malysheva. Vop neirokhir. 16 no. 5, 1952.
9. Monthly List of Russian Accessions. Library of Congress, January, 1953. Unclassified.

VYSOTSKIY, N. N.

Vysotskiy, N. N.-- "Phlegm during primary chronic pneumonia, "
Trudy Onskogo med. in-ta im. Kalinina, No. 10, p. 16
3-71

SO: U-3600, 10 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 6, 1949).

VYSOTSKIY, N. N.

Vysotskiy, N. N. - "A case of pleural hernia (during tuberculosis)," Trudy Omskogo med. in-ta im. Kalinina, No. 10, 1948, p. 277-35

SO: U-3600, 10 July 53, (Izvestia 'Zhurnal 'nizkhi Statey, No. 6, 1949).

VYSOTSKIY, N. N., prof.; MEL'NIKOVA, G. M., kanl. med. nauk

Increase in arterial pressure in coarctation of the aorta. Terap.
arkh. 34 no.4:76-78 '62. (MIRA 15:6)

1. Iz kliniki fakul'tetskoy terapii (zav. - prof. N. N. Vysotskiy)
Kalininskogo meditsinskogo instituta.

(AORTA—DISEASES) (HYPERTENSION)

KARAVANOV, A.G., prof.; VYSOTSKIY, N.N., prof.; ZHURAVSKIY, L.S.

Ligation of the internal mammary arteries in stencardia. Vrach. delo
no.10:70-74 0 '61. (MIRA 14:12)

1. Kafedra fakul'tetskoy khirurgii (zav. - prof. A.G.Karavanov) i
kafedra fakul'tetskoy terapii (zav. - prof. N.N.Vysotskiy) Kalinin-
skogo meditsinskogo instituta i oblastnaya bol'nitsa.
(ANGINA PECTORIS) (ARTERIES---LIGATURE)
(BREAST---BLOOD SUPPLY)

VYSOTSKIY, N.V.

Nonexpanding chuck for turret lathes. Stan.1 instr. 33
no.5:41-42 My '62. (MIRA 15:5)

(Chucks)

VYSOTSKY, PA

✓ The influence of solvent viscosity upon the polarographic diffusion currents of metal ions. *Izv. Akad. Nauk S.S.S.R. 1953-54 (1953).* The polarographic diffusion currents of single metal ions were studied in an aq. glycerol soln, over a wide variation in concn, varying between 0.1 and 0.01 M. A dil. "indifferent" electrolyte (0.01 M LiNO₃) greatly reduced the interionic effect upon the concn. of the complex-ion formation of Cu²⁺, and Zn²⁺ nitrates. In all the glycerol concns. used, the proportionality between the metal-ion concn. remained unaltered. Deviations did not exceed ±2-3%. The Stokes-Einstein equation $K_d/\eta = \text{const.}$ (K_d = the diffusional current const. and η = the viscosity) expressed the relationship experimentally.

W. M. LITERATURE

Sm
K

VYSOTSKIY, P.G.

Issledovaniye Slantsevoy Zoly Kashpi'skogo Mestorozhdeniya Kak Stroitel' nogo

Materiala, Goryuchiye Slantsy, 1933, No. 4,56.

SO: Goryuchiye Slantey #1934-35 TN. 871 G74

WISOTSKIY, N., VASHENKOV, G., YUKOV, P.

Zavodskiy Opyt Polucheniya Kerpicha Iz Zoly Kashpirskogo Slantca,
"Goryuchiye Slantsy", 1933, No 5, 37

SC:

Goryuchiye Slantsy # 1934-35, TM .871
G .74

VYSOTSKIY, P. G.

Vliyaniye Temperatury Na Vyazhushchiye Svoys'tva Slantsevoy Zoly Goryuchiye

Slantsy, 1933, No. 6, 67.

SO: Goryuchiye Slantey #1934-35 TN. 871 G74

VYSOTSKIY, P.G.

Metody Aktivirovaniya Slantsevoy Zoly, Goryuchiye Slantsy, 1934, No. 3,14

SO: Goryuchiye Slantey #1934-35 TN. 871 G74

VYSOTSKIY, P. G.

Szhiganiye Slantsev, Polucheniye Zely, Goryuchiye Slantsy, 1935, No 4, 64.

SO:

Goryuchiye Slantsy, 1934-35, TN .871
G .74

Vysotskiy P.G.

Vredna Li Dobavka Tsementa K Zole Goryuchikh Slantsev (In order of Discussion)
Goryuchiye Slantsy, 1935, No 4, 76.

SO: Goryuchiye Slantsy No. 1934-35 TN. 871
G74

VISOTSKIY, P.G.

Otvet Na Stat'Yu Inzh V. V. Bogoyavelenskogo (In order of Discussion) Goryuchiye
Slantsy, 1935, No. 4, 79.

SO: Goryuchiye Slantsy 1934-35 TN. 871
G74

VYSOTSKIY, P.G.

Portland-tsement Iz Zoly Goryichikh Slantsev (Vniis-tsement), Goryuchiye
Slantsy, 1935, No 5, 38

SC: Goryuchiye Slantsy # 1934-35, TN .871
G .74

WISOTSKIY, P. G.

K stat'ye A. B. getselava "Prichiny tverdeniya slantsevoy zoly" (in order of discussion), goryuchiye slantsy, 1935, No 5, 46.

SO: Goryuchiye Slantsy No. 1934-35

TR: .371
.G74

VYSOTSKIY, P. G.

PROCESSES AND PROPERTIES INDEX

CA

20

Raw materials for the production of white portland cement. P. G. Vysotskiy. *From: Stroitel. Material*, 2, No. 12, 8-10 (1940).—Characteristics are given of clays and limestones suitable for the production of white portland cement in the middle Volga region. E. E. Stefanowsky

COMMON ELEMENTS

ALY INDEX

BRATCHENKO, B.F., red.; ZABLODSKIY, G.P., red.; BARABANOV, F.A., red.;
BABOKIN, I.A., red.; BARANOV, A.I., red.; VYSOTSKIY, P.I., red.;
DREMAYLO, P.G., red.; ZASADYCH, B.P., red.; ZVENIGORODSKIY, G.Z., red.;
KAGAN, F.Ya., red.; LEVITSKIY, Ya.B., red.; LOTAROV, N.I., red.;
MARCHENKO, M.G., red.; MITROFANOV, M.B., red.; PAKHALOK, I.F., red.;
SHELKOV, A.A., red.; HYKOV, N.A., red. izd-va; IL'INSKAYA, G.M.,
tekhn. red.

[Safety rules for working in briquetting and preparation plants]
Pravila bezopasnosti pri vedenii rabot na briketnykh i obogatitel'-
nykh fabrikakh. Izd.2. Obiazatel'ny dlia vseh organizatsii i
predpriatii ugol'noi promyshlennosti. Moskva, Ugletekhizdat, 1958.
62 p. (MIRA 11:7)

1. Russia (1923- U.S.S.R.) Komitet po nadzoru za bezopasnym
vedeniyem rabot v promyshlennosti i gornomu nadzoru.
(Coal preparation--Safety measures) (Briquets (Fuel))

VYSOTSKIY, P.M.

Apparatus for resetting fragments of the shoulder and bone and for application of abduction plaster cast. Khirurgia, Moskva no.8:84-85 Aug 1953.

(CML 25:4)

DEGTYAREV, V.I.; VYSOTSKIY, P.N.

Modernization of forging crank presses at the Voronezh TMP
plant. Kuz.-shtam.proizv. 4 no.10:39-42 0 '62. (MIRA 15:12)
(Voronezh—Machinery industry)
(Power presses)

VYSOTSKIY, R. [Visockis, R.]

Changes in the level of phospholipids and cholesterol in the
blood serum following a fat load in rats of various age. Vestis
Latv ak no.4:101-110 '62.

*

VYSOTSKIY, R. [Visockis, R.]; KHEYDEMAN, K. [Heidemahs, K.]

Distribution of I^{131} tagged fat during a fat load in white rats of various ages. Vestis Latv ak no.7:119-121. '62.

VYSOTSKIY, R. (Moscow).

Stripping thin wires. Radio no.10:45 0 '53.

(MIRA 6:10)
(Electric wire)

VYSOTSKIY, R.

Changes in the level of lipids and lipoprotein fractions of the
blood serum following a fat load in rats of various ages. Izv.
AN Latv. SSR no.5:119-126 '62. (MIRA 16:7)
(Lipid metabolism)

VYSOTSKIY, R.Ya.; BAUMGART, V.F.

Apparatus for the direct photometry of lipid electrophoregrams.
Vop.med.khim. 5 no.5:377-380 S-0 '59. (MIRA 13:2)

1. Chair of Pathophysiology, Riga Medical Institute.
(LIPIDS chem.)
(ELECTROPHORESIS equip. & supply)

VYSOTSKIY, R.Ya.; LIVSHITS, Ye.G.

Method for determining lipoproteids by means of paper electrophoresis.
Lab. delo 5 no.3:31-34 My-Je '59. (MIRA 12:6)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. L.M. Gol'ber)
i kafedry pediatrii (zav. - prof. A.N. Ivanov) Rzhskogo meditsinskogo
instituta.

(LIPOPROTEIDS) (PAPER ELECTROPHORESIS)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420010-7

Vysotskiy R Ya

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961420010-7"

VYSOTSKIY, S.M.

DS-800 automatic scales for weighing sugar beets. Sakh.prom.
32 no.10:43-47 0 '58. (MIRA 11:11)
(Scales (Weighing instruments)) (Sugar beets)

TYUTYUNNIKOV, B.N.; VYSOTSKIY, S.

Hydrogenation of sunflower seed oil with simultaneous supersonic
imposition. Izv. vys. ucheb. zav.; pishch. tekhn. no.5:44-48 '61.
(MIRA 15:1)

1. Khar'kovskiy politekhnicheskii institut imeni V.I.Lenina.
Kafedra tekhnologii zhirov.

(Sunflower seed oil) (Hydrogenation)
(Ultrasonic waves--Industrial applications)

VYSOTSKIY, S., Cand Tech Sci — (diss) "On methods for characterizing the degree of radical selectivity during the hydrogenation of fats and on the effect of certain factors on it," Kharkov, 1960, 18 pp, 150 cop. (Kharkov Polytechnical Institute im V. I. Lenin) (KL, 45-60, 125)

TYUTYUNNIKOV, B.N., doktor tekhn.nauk; VYSOTSKIY, S.

Effect of certain factors on selectivity in the hydrogenation of
fats. Masl.-zhir.prom. 26 no.5:12-14 My '60. (MIRA 13:12)

1. Khar'kovskiy politekhnicheskii institut imeni V.I.Lenina.
(Oils and fats) (Hydrogenation)

TYUTYUNNIKOV, B.N., doktor tekhn.nauk; VYSOTSKIY, S.

Problem in the quantitative determination of radical
selectivity in the hydrogenation of fats. Masl.-zhir.
prom. 26 no.4:25-29 Ap '60. (MIRA 13:6)

1. Khar'kovskiy politekhnicheskii institut imeni V.I.
Lenina.

(Oils and fats) (Hydrogenation)

VYSOTSKIY, S.

Changes in the design of automatic batch scales. Muk.-elev.prom.22
no.6:19-21. Ja '56. (MIRA 9:9)

1.Nauchno-issledovatel'skiy institut vesov i priborov.
(Scales (Weighing instruments))

VYSOTSKIY, Sh., inzh.; GAL'PEROVICH, L., inzh.

New spray burner for D and DR 30/50 engines. Mor.flot 18 no.3:25-26
Mr '58. (MIRA 11:4)

1. Zavod "Russkiy dizel'."
(Marine diesel engines) (Burners)

VYSOTSKIY, S.M.

Scales for taking stock of beets. Sakh.prom 30 no.12:30-32 D *56.
(MLRA 10:1)

1. Nauchno-issledovatel'skiy institut vesov i priborov.
(Scales(weighing instruments)

VYSOTSKIY, S.M.

DS-500-2 automatic scales. Sakh.prom.30 no.2:29-33 P '56.
(Scales (Weighing instruments) (MIRA 9:7)

VYSOTSKIY, S.M.

Improvement of automatic scales for beets. Sakh.pren.30 no.3:
66-67 Nr '56. (MLRA 9:7)
(Scales (Weighing instruments))

VISOTSKIY, Sh.L., inzh.

State standard 7744-55 for "Nozzle atomizers of stationary
marine and diesel locomotive diesel engines." Energomashinostroenie
7 no.2:28,43 F '61. (MIRA 16:7)

(Diesel engines—Fuel systems)
(Nozzles—Standards)

VISOTSKIY, Sh., inzh.

State standard 7744-55 for "Nozzle atomizers of stationary
marine and diesel locomotive diesel engines." Energomashinostroenie
7 no.2:28,43 F '61. (MIRA 16:7)

(Diesel engines—Fuel systems)
(Nozzles—Standards)

TILICHENKO, N.M.; VYSOTSKIY, V.I.

Condensation of aldehydes and ketones. Part 9: Condensation of
symm.octahydroacridine with benzaldehyde. Zhur. ob. khim. 32 no.1:
84-86 Ja '62. (MIRA 15:2)

1. Dal'novostochnyy gosudarstvennyy universitet.
(Acridine) (Benzaldehyde)

S/081/61/000/020/041/089
B140/B110

AUTHORS: Tilichenko, M. N., Vysotskiy, V. I.

TITLE: Improved method of synthesizing methylene dicyclohexanone

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 20, 1961, 160, abstract
20Zh81 (Uch. zap. Yakutskogo un-ta, no. 8, 1960, 27 - 28)

TEXT: The method of synthesizing methylene dicyclohexanone-2 (I) (see RZhKhim, 1957, no. 9, 30533) was improved. 1.1 moles of CH_2O was added to a mixture of 7.1 moles of cyclohexanone and 120 milliliters of 4 N alcoholic NaOH at 70°C within 30 min. The mixture is then stirred at 70°C for 30 min, cooled, and neutralized with 28.5 g of glacial acetic acid. On distillation, I (b.p. $151 - 155^\circ\text{C}/3\text{mm Hg}$, m.p. 58°C) is obtained from the organic layer in a yield of 77%. When the reaction mixture is left standing for 16 hrs after neutralization, tricyclohexanolone (2,3 tetra-methylene bicyclo-[3,3,1]-nonanol-2-one-9) precipitates in a yield of 9.2%, and I is formed in a yield of 67.5%. [Abstracter's note: Complete translation.]

Card 1/1

VYSOTSKII, V.

Practical manual on forestry and forest income Moskva, Gos. fin. izd-vo
SSSR, 1933. 103 p. 51-47761

sd 393.v9

1. Forests and forestry--Russia.

GEORGADZE, S.; MATLIN, M.; MIRGORODSKIY, I., starshiy instruktor;
CHERNYSHEV, G., student (Zhdanov); DEKHTYAR, B., metodist;
VYSOTSKIY, V., instruktor; KANUKOV, G. (g. Shakhty, Rostovskoy obl.);
MCHEDLISHVILI, I. (Tbilisi); BABENKO, P. (Poltavskaya obl.)

Readers relate; advise and criticize. Sov. profsoyuzy 18 no.19:30-31
0 '62. (MIRA 15:9)

1. Nachal'nik otdela truda i zarabotnoy platy rudnika "Mittis-Kumuzh'ye" kombinata "Severonikel", Murmanskaya obl. (for Matlin).
2. Orgmassovyy otдел Krasnodarskogo kraysovproufa (for Mirgorodskiy).
3. Tsentral'nyy Dom kul'tury zheleznodorozhnikov, g. Rostov-na-Donu (for Dekhtyar).
4. Gorodskoy komitet Kommunisticheskoy partii Sovetskogo Soyuz; g. Omsk (for Vysotskiy).
5. Neshtatnyy korrespondent zhurnala "Sovetskiye profsoyuzy" (for Kanukov).
(Tiflis--Engraving) (Trade unions) (Weddings)

VYSOTSKIY, V., inzh.

Equipment for a tank fire control center. Voen.vest. 39 no.8:73-78
Ag '60. (MIRA 14:2)
(Targets (Military science)) (Tank warfare)

VYSOTSKIY, V.F.; ZASUKHIN, B.G.

Effect of an electrically protected pipeline on parallel laid
unprotected installations. Gaz. delo no.10:35-37 '63.

(MIRA 17:4)

1. Ukrainskiy gosudarstvennyy institut po proyektirovaniyu
predpriyatiy po dobyche prirodnkh gazov.

VISOTSKIY, V.F., inzh.; KOTIK, V.G., inzh.

Increasing the protection zone by using additional cathode ground-
ing. Stroi. truboprov. 6 no. 1:10-11 Ja '61, (MIRA 14:2)
(Electric currents--Grounding) (Pipelines)

VISOTSKIY, V.F.

Effect of the distance between a pipeline and grounding on the size of the cathodic protection zone. Zashch. trub. ot kor.
no.5:69-73 '62. (MIRA 17:7)

1. Ukrainskiy gosudarstvennyy institut po proyektirovaniyu predpriyatiy po dobyche prirodnkh gazov, Kiyev.

VYSOTSKIY, V.F.

Technical-economic calculation of a direct current circuit for
cathodic protection. Gaz. delo no.10:20-24 '64. (MIRA 18:1)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy
gazovoy promyshlennosti i promyshlennosti iskusstvennogo zhidkogo
topliva.

VYSOTSKIY, V.F.

Cathode leads of new types on main gas pipelines. Gaz.prom. 6
no.2:31-33 '61. (MIRA 14:4)

(Gas, Natural—Pipelines)

VYSOTSKIY, V.F.

Comparing data on the calculation of the zone of protection of
cathode stations by various methods. Gaz. delo no.8:36-41 '64.
(MIRA 17:9)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy
gazovoy promyshlennosti i promyshlennosti iskusstvennogo zhidkogo
topliva, Kiyev.

ACCESSION NR: AT4042646

S/0000/63/000/000/0023/0026

AUTHOR: Antipov, V. V.; Vy'sotskiy, V. G.; Davy'dov, B. I.; Dobrov, N. N.;
Morozov, V. S.; Murin, G. F.; Nikitin, M. D.; Saksonov, P. P.

TITLE: Some problems in providing radiation safety in space flight

SOURCE: Konferentsiya po aviatsionnoy i kosmicheskoy meditsine, 1963.
Aviatsionnaya i kosmicheskaya meditsina (Aviation and space medicine); materialy
konferentsii. Moscow, 1963, 23-26

TOPIC TAGS: radiation safety, space flight, spaceflight factors, cosmic radiation
effect, vibration, acceleration, radiation protection, dosimetric control, bio-
logical dosimeter, solar flare, antiradiation drug/RBE

ABSTRACT: Although protons are an important component of primary cosmic radiation,
experimental data on their biological action under space conditions and their
RBE compared with x-rays and gamma-rays are lacking. It has been established that
the RBE of protons with energies in excess of 100 Mev (LD₅₀ for rodents) is a
little less than one. However, the data on which this figure is based were obtained
with various particle accelerators of high-dose power and pulsed radiation,

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conditions not found in space. The RBE of alpha-particles and high-energy nuclei of the heavier elements has been estimated as lying between 2 and 10. Laboratory verification with animals is unfortunately impossible, since sufficiently powerful accelerators do not exist. The combined effect of radiation and other space-flight factors (vibration, acceleration, modified atmosphere, etc.) is another important area where few experimental data are available. It is necessary to know in what ways and to what extent cosmic radiation contributes to the total effect of space flight on the human body, and what is the qualitative and quantitative influence of other space-flight factors on the biological effect of radiation, in order to formulate scientifically-based antiradiation drugs and safety measures. Experiments have shown that the development of radiation damage is modified by acceleration and vibration, the effect depending on when and in what sequence these factors occur. Animals subjected to vibration and acceleration 5 to 7 days after irradiation showed a poorer tolerance to these factors than nonirradiated animals. In addition, the vibration and acceleration aggravated the course of the radiation sickness. Vibration and acceleration prior to irradiation not only failed to aggravate radiation sickness, but even somewhat abated its severity. Without experimental data on RBE and the combined effects of spaceflight factors, permissible levels of radiation cannot be scientifically established. A conditional

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ACCESSION NR: AT4042646

permissible dose of 25 ber (biological equivalent roentgen) has been set, but is subject to revision upward or downward as actual data on the effect of various cosmic radiation components and the effectiveness of antiradiation measures are accumulated. The ideal type of radiation protection would be mechanical shielding (i. e., an actual screen of lead or some other material) but this is technologically impossible at present. The majority of chemical antiradiation agents cannot be used under space-flight conditions. Since radiation effects are not confined to humans, not only the crew members but the whole spaceship biocomplex (plants, animals on board, etc.) must be protected lest the equilibrium of the closed ecology be upset by hereditary or other effects. Basic elements of a radiation safety system for spacecraft will be: 1) dependable dosimetric control of the radiation level in the spaceship cabin by means of ship, individual, and biological dosimeters; 2) scientific forecasting of radiation conditions in space, especially solar chromospheric flares; and 3) effective pharmacological and biological agents for protection against the harmful effects of cosmic radiation.

ASSOCIATION: none

Card

3/4

• ACCESSION NR: AT4042646

SUBMITTED: 27Sep63

ENCL: 00

SUB CODE: LS

NO REF SOV: 000

OTHER: 000

Card 1 4/4

ACCESSION NR: AT4042674

5/0000/63/000/000/0149/0153

AUTHOR: Belone, N. L.; Popovich, P. R.; Antipov, V. V.; Vysotskiy, V. G.

TITLE: Alterations in mitotic activity following space flights

SOURCE: Konferentsiya po aviatsionnoy i kosmicheskoy meditsine, 1963. Aviatzionnaya i kosmicheskaya meditsina (Aviation and space medicine); materialy konferentsii. Moscow, 1963, 149-153

TOPIC TAGS: microspore, spaceflight effect, mitotic activity, Tradescantia paludosa, Vostok 3, Vostok 4

ABSTRACT: Tradescantia paludosa microspores were cultivated in special biological cartridges on Vostok 3 and Vostok 4 to determine how conditions of space flight affect mitotic processes. In one experiment on Vostok 4, P. R. Popovich fixed cultures after an orbiting time of 56 hours. In two other tests, cultures were examined 18 and 48 hours after re-entry. Significant alterations in mitotic processes were observed as a result of exposure to conditions of space flight. The authors suggest that the basic mechanism of these alterations must have been weightlessness because other experiments have shown that gravitational forces and

Card

1/2

ACCESSION NR: AT4042674

radiation doses higher than those encountered during space flights are required to produce mitotic aberrations.

ASSOCIATION: none

SUBMITTED: 278ep63

ENCL: CO

SUB CODE: LS

NO REF SOV: 000

OTHER: 000

Cord

2/2

L 19452-63 EWT(1)/FCC(w)/FS(v)-2/BDS/ES(a)/ES(j)/ES(c)/ES(k)/EEO-2/ES(v)/
ES(t)-2 AFFTC/AMD/AFMDC/ESD-3 Pb-L/P1-L/Po-L/Pe-L/Pq-L TT/A/RD/DD
ACCESSION NR: AP3007351 S/0293/63/001/001/0182/0185 **AB**

AUTHOR: Gordon, L. K.; Dalone, N. L.; Antipov, V. V.; Vy*sotskiy,
V. G.

TITLE: Effect of space-flight conditions on Vostok-3 on seeds of
higher plants

SOURCE: Kosmicheskiye issledovaniya, v. 1, no. 1, 1963, 182-185

TOPIC TAGS: space flight effect, Vostok 3, wheat seed, lettuce seed,
beans, pine seed, chromosome reconstruction

ABSTRACT: Dry seeds of 14 different kinds of higher plants were taken on board Vostok-3. Three criteria were used to determine the effects of space flight: sprouting, rate of growth, and percentage of chromosome reconstructions. Examination revealed that flight conditions produced a statistically significant increase (27 \pm 7.44%) in sprouting of PPG-186 (a wheat-agropyron hybrid) and a significant decrease (7.8 \pm 1.96%) in sprouting of Berlin lettuce. Similar effects were noted in growth rates. The seeds of black Russian beans and pine were tested for chromosome reconstructions,

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ACCESSION NR: AP3007351

and in both cases a definite tendency towards an increase in the number of reconstructions was observed. Orig. art. has: 3 tables.

ASSOCIATION: none

SUBMITTED: 24Apr63

DATE ACQ: 21Oct63

ENCL: 00

SUB CODE: AM

NO REF SOV: 003

OTHER: 000

Card 2/2

VY...TS...
102
ACCESSION NR: AT4042681

S/0000/63/000/000/0185/0188

AUTHOR: Zhukov-Verezhnikov, N. N.; Mayskiy, I. N.; Yazdovskiy, V. I.; Pekhov, A. P.; Rybakov, N. I.; Tribulev, G. P.; Saksonov, P. P.; Dobrov, N. N.; Antipov, V. V.; Kozlov, V. A.; Yyotskiy, V. G.; Mishenko, B. A. Rybakova, D. K.; Parfenov, G. P.; Pantyukhova, V. V.; Yudin, Ye. V.; Aniskin, Ye. D.

TITLE: The evaluation of the biological effectiveness of space-flight factors with the aid of lysogenic bacteria

SOURCE: Konferentsiya po aviatsionnoy i kosmicheskoy meditsine, 1963. Aviatsionnaya i kosmicheskaya meditsina (Aviation and space medicine); materialy konferentsii. Moscow, 1963, 185-188

TOPIC TAGS: lysogenic bacteria, biological sensor, radiation detector, bacteriophage, phage, vibration, irradiation/Vostok III, Vostok IV

ABSTRACT: Lysogenic bacteria, E. coli K-12 (λ), was carried on spaceships

Card 1/3

ACCESSION NR: AT4042681

Vostok III and Vostok IV as a biological sensor. The advantages of lysogenic bacteria as biological sensors stem not only from their extreme sensitivity to various types of radiation, but also from the fact that induced changes are directly proportional to the dose of irradiation. In addition, *E. coli* was subjected to the combined effects of radiation and vibration in ground experiments. Vibration was produced by means of a vibrator with frequencies of 35, 70, and 700 cps, an amplitude ranging from 0.4 to 0.005 mm with a load equal to 10 g, for periods of 15, 30, and 60 min. Co^{60} in doses of 100 r at a rate of 21 r per min served as a source of radiation. Lysogenic bacteria carried on space-ships Vostok III and Vostok IV revealed induction of genetic changes produced by space-flight factors which was indicated by a significant increase in the number of phage particles. The induced effect was more pronounced on Vostok III than on Vostok IV. Forty-eight hours after its return to earth, the bacteria carried by Vostok III had produced 4.6 times as many phage particles as controls which had remained on earth. Ground experiments with vibration indicate that the combined vibration and gamma irradiation, followed by a second exposure to vibration, double the biological effectiveness of gamma rays.

Cord 2/3

ACCESSION NR: AT4042681

However, when the bacteria is subjected to only a single dose of vibration following irradiation, there is no increase in the number of phage particles as compared to samples which were exposed to irradiation alone. This fact indicates that under space flight conditions vibration sensitizes the lysogenic bacteria to the effect of ionizing radiation. This as yet hypothetical explanation should be substantiated by additional experiments.

ASSOCIATION: none

SUBMITTED: 27Sep63

ENCL: 00

SUB CODE: LS

NO REF SOV: 000

OTHER: 000

Card 3/3

DELONE, N.L.; POPOVICH, P.R.; ANTIPOV, V.V.; VYSOTSKIY, V.G.

Effect of cosmic flight factors in the satellite-spaceships
"Vostok-3" and "Vostok-4" on microspores of *Tradescantia*
paludosa. Kosm. issl. 1 no.2:312-325 S-O '63. (MIRA 17:4)

DELONE, N.L.; POPOVICH, P.R.; ANTIPOV, V.V.; VYSOTSKIY, V.G.

New types of chromosome rearrangements in the microspores of *Tradescantia paludosa* under the influence of certain factors during spaceship flights. Dokl. AN SSSR 152 no.5:1227-1230 0 '63.
(MIRA 16:12)

1. Predstavleno akademikom N.M.Sisakyanom.

X

ANTIPOV, V. V.; VYSOTSKIY, V. G.; DAVYDOV, B. I.; DOBROV, N. N.; MOROZOV, V. S.; MURIN, G. F.;
NIKITIN, M. D.; SAKSONOV, P. P.

"Some problems in providing radiation safety in space flight."

report presented at the 5th Intl Space Science Symp, Florence, 12-16 May 64.

... ..
TITLE: The sensitivity of different mitotic phases of *Tradescantia*
paludosa microspores to acceleration 2/

... ..
a T-13-R laboratory centrifuge (model of 11-77)
... .. and the duration of exposure was 15 min.

Card 1/3

late interphase - 1.13, early prophase - 1.4, middle prophase -
late prophase - 5.64, anaphase 5.03. An analysis of the first post-

Card 2/3

L 16012-65

ACCESSION NR: AP4048655

NO REF S 11 101

Card 3/3

ACCESSION NR: AP4034805

S/0293/64/002/002/0320/0329

AUTHOR: Delone, N. L.; By*kovskiy, V. F.; Antipov, V. V.; Parfenov, G. P.; Vy*sot'skiy, V. G.; Rudneva, N. A.

TITLE: Effect of Vostok-5 and Vostok-6 space flights on Tradescantia paludosa microspores

SOURCE: Kosmicheskiye issledovaniya, v. 2, no. 2, 1964, 320-329

TOPIC TAGS: space flight, Vostok 5, Vostok 6, microspore, mitosis, vibration, acceleration, weightlessness, Tradescantia

ABSTRACT: Exposure of Tradescantia microspores to orbital flights in Vostok-5 and Vostok-6 spaceships adversely affected the mitotic mechanism. Cytological analysis of the samples revealed five types of abnormalities: Type I, incomplete mitosis due to nondisjunction of chromosomes; Type II, "rosette" chromosome alignment on the metaphase plate; Type III, nondisjunction aberrations in spindle orientation (the nuclei in the experimental and in the control spores are located in different planes); Type IV, nondisjunction of chromosomes or delayed telophase; Type V, multipolar mitosis leading to the formation

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ACCESSION NR: AP4034805

of polynucleated cells. Comparison of experimental and control samples indicated that the aberrations described are due to such factors as accelerations and vibrations rather than to weightlessness. It was concluded that weightlessness has no significant zonetec effect within time limits of 120 hr. Orig. art. has: 5 figures and 6 tables.

ASSOCIATION: none

SUBMITTED: 11Dec63

DATE ACQ: 20May64

ENCL: 00

SUB CODE: PH, LS

NO REF SOV: 001

OTHER: 000

ATD PRESS: 3041

Card 2/2

DELONE, N.L.; VYSOTSKIY, V.G.

Sensitivity of different phases of mitosis in the microspores
of Tradescantia paludosa to acceleration. Izv. AN SSSR. Ser.
biol. no.6:900-907 N-D '64.

(MIRA 17:11)

L 23995-66 FSS-2/EWT(1)/EEC(k)-2/EWA(d) SCTB TT/DD/RD/GW

ACC NR: AT6003859

SOURCE CODE: UR/2865/65/004/000/0248/0260

AUTHOR: Antipov, V. V.; Delone, N. L.; Parfenov, G. P.; Vysotskiy, V. G.

ORG: none

TITLE: Results of biologic experiments conducted under flight conditions in the "Vostok" spaceships with participation of the astronauts A. G. Nikolayev, P. R. Popovich and V. G. Vysotskiy

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 248-260

TOPIC TAGS: experiment animal, space biologic experiment, biologic acceleration effect, radiation biologic effect, space biology, biologic mutation

ABSTRACT: The effect of motion, weightlessness and cosmic radiation on propagation, growth and development of organisms was studied in *Drosophila melanogaster* and *Tradescantia paludosa*. Male and female flies were placed into separate glass tubes 6 hours before start of flight and were fed agar agar and sugar. During flight the two sexes were put into one glass. On the next flight the progeny from eggs laid during weightlessness was taken along under the same conditions. The

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L 23995-66

ACC NR: AT6003859

2

flies emerged from the cocoons 6 days later than controls, probably due to the cooler climate in the space cabin. More females than males emerged, the weight of the test flies was lower (due probably to the high agar content of the diet) and 4 anomalies were seen in 482 flies, involving only one half of the body. No mutants were seen. It is concluded that results were normal for the 4 days' flight, but that these findings have only qualitative value. Similar arrangements were made for observing propagation of the plants during flight. Cuttings of raceme of Tradescantia clone were put into a container, to be fixated by the astronauts 6 and 9 hours respectively after the start of the two flights. Cytologic analysis showed chromosome aberration, disturbance of mitosis and growth processes, and altogether 4 types of disturbances involving the nucleus and the mechanism of mitosis. These disturbances are ascribed mainly to motion, since the radiation dose was very low (40-80 millirad). Orig. art. has: 7 figures.

SUB CODE: 06,22/SUBM DATE: none/ ORIG REF: 006

** [ADD CLUE WORD

Vostok 3Vostok 4

12

12

Card 2/2 *pla*

VORONIN, V.A., inzh.; VYSOTSKIY, V.I., inzh.

Studying the duty balance of the SKG-3 rice and grain combine.
Trakt. i sel'khoz mash. 33 no.9:21-24 S '63. (MIRA 16:10)

(Combines (Agricultural machinery))

BARSKOV, I.S.; VYSOTSKIY, V.I.

Prospects for finding oil and gas in the southeastern part of
Tunguska Basin. Neftegaz. geol. i geofiz. no.3:20-24 '64.
(MIKA 17:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.

TILICHENKO, M.N.; VYSOTSKIY, V.I.

Action of formamide on isomeric methylene bicyclohexanone and
tricyclohexanone. Dokl. AN SSSR 119 no.6:1162-1163 Ap '58.
(MIRA 11:6)

1. Saratovskiy gosudarstvennyy universitet im. N.G. Chernyshevskogo.
Predstavleno akademikom B.A. Kazanskim.
(Formamide) (Cyclohexanone)

80312

SOV/81-59-7-23413

5.3610

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 7, p 229 (USSR)

AUTHOR: Vysotskiy, V.I.

TITLE: Some 1,5-Diketones and the Products of Their Transformations in Leykart Reaction

PERIODICAL: Uch. zap. Yakutskogo un-ta, 1958, Nr 4, pp 49 - 51

ABSTRACT: Methylene-bis-(cyclohexanone-2), as well as the product of its intramolecular ketolization (II), produce according to Leykart reaction a mixture of octahydroacridine (III) and perhydroacridine (IV). 0.1 mole of I, 0.8 mole of HCONH_2 and 2 g of a Ni-catalyst obtained from $(\text{HCCO})_2\text{Ni}$, are heated for 1 hour at 180°C until the end of CO_2 liberation, 100 ml of concentrated HCl is added, the whole is boiled for 1 hour and the chlorohydrate of IV is separated, yield 16.6%, decomp. p. $220 - 230^\circ\text{C}$ (from alcohol). From the filtrate after alkalization III is separated, yield 64%, m.p. $69 - 70^\circ\text{C}$ (from petroleum ether). In the case of the interaction of 0.1 mole of HCONH_2 in the absence

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SOV/81-59-7-23413

Some 1,5-Diketones and the Products of Their Transformations in Leykart
Reaction

of a catalyst (165 - 175°C, 4 hours) the yield of III decreases to 40.8 -
43.6%, and the yield of IV, m.p. 87°C (from petroleum ether) increases to
18.9 - 28.5%. From II under analogous conditions the yield of III is
40.7%, the yield of IV 14.5%.

G. Braz

Card 2/2

20-119-6-30/56

AUTHORS: Tilichenko, M. N., Vysotskiy, V. I.

TITLE: The Action of Formamide on Isomeric Methylene-Dicyclohexanone and Tricyclohexanolone (Deystviye formamida na izomernyye metilenditsiklogeksanon i tritsiklogeksanolon)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 119, Nr 6, pp.1162-1163 (USSR)

ABSTRACT: When the authors acted upon the two latter compounds described in a previous work (Ref 1) with formamide, they obtained the same compounds under the conditions of the Leykart-reaction, that is to say, Simm-octohydroacridine and perhydroacridine. This fact proves that tricyclo-hexanolone isomerizes into methylene-dicyclohexanone. The process proceeds with a sufficient speed in order to prevent the products of hydroamination of tricyclohexanolone from forming. The determined reaction is interesting also in preparative respects: it proceeds considerably easily and in a good yield (about 80 %) of bases, and is easily accessible, as well with regard to the technique of performance, as to the initial substances.

Card 1/2

20-119-6-30/56

The Action of Formamide on Isomeric Methylene-Dicyclohexanone and Tricyclohexanolone

This is the first example of applying the Leykard-reaction to the alicyclic 1,5-diketones. Formerly, it only could be applied to 1,5-diketones of the aliphatic and aryl-aliphatic series (Refs 6, 7). Then follows an experimental part with usual data. There are 9 references, 3 of which are Soviet.

ASSOCIATION: Saratovskiy gosudarstvennyy universitet im. N. G. Chernyshevskogo
(Saratov State University imeni N. G. Chernyshevskiy)

PRESENTED: December 23, 1957, by B. A. Kazanskiy, Member, Academy of Sciences, USSR

SUBMITTED: June 27, 1957

Card 2/2

TILICHENKO, M.N.; BERBULESKU, N.S.; VYSOTSKIY, V.I.

Transition from tricyclohexenones to tricyclohexenylamines.
Zhur.ob.khim. 31 no.12:4058-4059 D '61. (MIRA 15:2)

1. Dal'nevostochnyy gosudarstvennyy universitet.
(Cyclohexenone)
(Cyclohexenylamine)

VYSOTSKIY, VI.

From a Korean notebook. Vokrug sveta no.8:12-16 Ag'55. (MIRA 8:12)
(Korea, North--Description and travel)

VYSOTSKIY, Vasilii Kuz'mich; TARALOV, Aleksandr Sergeyevich; TEREKHIN,
Konstantin Petrovich; ONEDOVETS, P.P., red., polkovnik zapasa;
MEDNIKOVA, A.N., tekhn.red.

[Soviet army's rear organization during the last 40 years;
a brief popular account] Tyl Sovetskoi Armii za 40 let; kretkii
populiarnyi ocherk. Moskva, Voen. izd-vo M-va obor. SSSR, 1958.
112 p. (MIRA 11:12)

(Russia--Army)

VYSOTSKIY, V.N.

Mines of the Sokolovka - Sarbay ore dressing combine. Gor.zhmir.
no.10:3-11 0 '56. (MLBA 9:12)

1. Glavnyy inzhener proyekta Sokolovsko-Sarbayskogo gorno-obog-
titel'nogo kombinata.
(Sokolovka--Iron mines and mining)

VYSOTSKIY, V.P.

Republic conference on semiprofessional medical training. Zdrav.
Ros.Feder. 3 no.2:39-43 F '59. (MIRA 12:2)
(MEDICINE--STUDY AND TEACHING)

S/123/62/000/007/010/016
A004/A101

AUTHORS: Vysotskiy, V. Z., Petrovskaya, M. P.

TITLE: Automatic for the vacuum-metallizing of ceramic resistance bases of the MNT (MLT) type.

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 7, 1962, 37-38, abstract 7B200 ("Tr. Proyechn. tekhnol. i n.-i. in-ta. Gor'kovsk. sovnarkhoz", 1961, no. 2(8), 3-13)

TEXT: The authors describe the design of a 10-position merry-go-round-type automatic for metallizing resistances in high vacuum developed by PTNII. The automatic has been designed as a 10-position merry-go-round installation of the rotor type. It consists of 3 individual assemblies which are connected among each other: the merry-go-round-type installation proper with vacuum chambers, mechanical drive from the control device, and a control and signaling panel. The merry-go-round diameter is 2.2 m, the height of the automatic with the cover being open is 2.85 m, the overall dimensions of the control panel are 1.3 x 0.8 x 1.7 m, the automatic weighs 3 tons. All technological operations on the automatic are connected with the rotation of the merry-go-round: each production

Card 1/3

Automatic for the vacuum-metallizing ...

S/123/62/000/007/010/016
A004/A101

operation does not start before the merry-go-round is in a definite position which is strictly determined by the angle of rotation. The first and second preliminary evacuations and also the maintaining of the necessary rarefaction at the outlet from the steam-oil pumps is effected by one 10-chamber forevacuum pump switched on at the start of the assembly from the control and signaling panel. Rapid evacuation up to a high rarefaction is effected by steam-oil pumps of 500 l/sec capacity. Each operating vacuum chamber is equipped with its own steam-oil pump. Both the steam-oil pumps and the preliminary rarefaction pump are positioned on the rotating part of the merry-go-round. The merry-go-round of the automatic with the vacuum chambers continuously rotates at a speed of 2 rev/hour. The full processing cycle of the magazine with the components, including loading and unloading time, amounts to 30 min. The automatic delivery cycle of the next block with a component batch amounts to 3 min. The component blocks are assembled at a separate working place. Each block is loaded simultaneously with 2,000 MLT resistance blanks of 0.5 w capacity (or 1,320 pieces of 1 w or 660 pieces of 2 w capacity). The cleaning of the surface of the ceramic bases is effected on the automatic in a glow discharge field. The glow discharge is excited in the vacuum chamber by two electrodes which are supplied with a 3 kV voltage from the a-c mains of industrial frequency. An intensive ✓

Card 2/3

S/123/62/CGO/007/010/016
A004/A101

Automatic for the vacuum-metallizing ...

discharge is taking place in the rarefaction range of 1 to $1 \cdot 10^{-2}$ Hg. The maximum current during the discharge is 0.5 amp. A luminescence of ionized residual gas can be observed in the vacuum chamber during the glow discharge. The planned capacity of the automatic is 85 - 206 thousand pieces in 7 hours working time depending on the electric capacity of the ceramic resistances.

[Abstracter's note: Complete translation]

Card 3/3

VYSOTSKIY, Ye., arkhitekt

Apartment houses to be built in the Turkmen S.S.R. Zhil.stroi.
no.11:6-11 '58. (MIRA 12:6)
(Turkmenistan--Apartment houses)

VYSOTSKIY, Ye.

POKIN, V.; VYSOTSKIY, Ye.

Enforce strictly the labor legislation. Bezop.truda v prom. 1
no.5:38 '57. (MIRA 10:7)

1. Nachal'nik uchastka No. 1 shakhty "TSentral'naya-Bokovskaya"
(for Pokin). 2. Sekretar' redaktsii mnogotirazhnoy gazety
"Leninskiy put'" (for Vysotskiy).
(Labor laws and legislation)

IL'IN, S., zhurnalist; RUSAKOVA, V., zhurnalist; BRODOVSKIY, B., zhurnalist;
SVIRIN, I., zhurnalist; KISHCHIK, P., zhurnalist; STOYKEVICH, M.,
zhurnalist; PAREMSKIY, V., zhurnalist; L'VOV, B., zhurnalist;
LYUBASHCHENKO, I., zhurnalist; YYSOTSKIY, Ye., zhurnalist;
KEVOSTOVA, D.M., red.; SHADRINA, N.D., tekhn.red.

[Innovators in the seven-year plan; people with work achievements]
Zachinateli novogo v semiletke; ljudi trudovogo podviga. Moskva,
Izd-vo VTsSPS Profizdat. No.7. 1961. 66 p.

(MIRA 15:2)

(Building--Technological innovations)

1. VYSOTSKIY, YE. A. and TSVETKOVA, Z. M.

2. USSR (600)

4. Lathes

7. Combination lathe for making outside and inside chamfers on tubes for pipeline installations. Vest. mash. 32 no. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

VISOTSKIY, Ye. A., inzh.

Reversing machine for pipe rolling. Energomashinostroenie 4 no.8:
45 Ag '58. (MIRA 11:11)
(Rolling mills)

VYSOTSKIY, YE. P.

VYSOTSKIY, YE. P.- "Distribution of Charge-conductivity Current in Three-Phase Iron melting Arc Furnaces as a Function of the Magnitude of the Disintegration Diameter of the Electrodes." Min of Higher Education USSR, Kuybyshev Industrial Inst imeni V. V. Kuybyshev, Kuybyshev, 1955 (Dissertaions For Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis' No. 26, June 1955, Moscow

VYSOTSKIY, Yevgeniy Petrovich, kand.tokhn.nauk, ispolnyayushchiy
obyazannosti dotsenta

Plane-parallel charge field bounded by a dihedral angle.

Izv. vys. ucheb. zav.; elektromekh. 6 no.3:297-302 '63.

(MIRA 16:5)

1. Kafedra elektricheskikh mashin i apparatov Kuybyshevskogo
industrial'nogo instituta.

(Smelting furnaces)

1. TOCH-47 (1) 011
 1. TOCH-47 (1) 011

SOURCE CODE: III/0413/66/000/015/0004/0004

Authors: V. Ye.; Benenikov, V. S.; Ayzan, Yu. A.; Sokolinskiy, Ye. A.;
 G. A.; K. I.; Zedorov, V. M.; Ivanov, A. M.; Malinskiy, S. A.;
 V. V.; M. K.; Vynolakiy, Yu. A.; Zamukiy, V. M.; Bystrov, V. V.;
 V. P.; Shobekin, I. V.; Yevnerov, D. A.; Germanov, Yu. G.; Maksimov, K. P.;
 D. A.; Plachulin, V. V.

ORG: none

TITLE: Seismic station. Class 42, No. 10/466 [announced by "Neftepribor" Factory
 of the Instrument Manufacture Administration of Mosgorsovnarkhoz (Zavod "Neftepribor"
 Upravleniya priborostroyeniya Mosgorsovnarkhoza)]

SOURCE: Izobret prom obraz tov zn, no. 15, 1966, 94

TOPIC TAGS: seismologic station, seismologic instrument

ABSTRACT: This Author Certificate presents a seismic station containing a seismic
 signal detector, a recording amplifier unit, an oscillograph, a magnetic drum
 recorder, a channel reproduction unit, a control unit, a reproduction amplifier, a
 multichannel borehole probe, a drum with photographic paper, a retransmitting unit,
 and a power supply. To increase the reliability when transferring from operation with
 the method of reflected waves to the method of refracted waves, a filter unit is
 connected between the first and second stages of the recording amplifier unit. A

Cord 1/2

UDC: 550.340.19

L 10061-37

ACC NR: AP6029933

modulator-demodulator unit and a reel type magnetic recorder are connected in series to the output of the recording amplifier unit. For operation with the method of refracted waves, the filter unit has frequency cutoffs of 7--30 hz, and for operation at sea--frequency cutoffs of 20--50 hz. To increase the reliability of the recorded data with operation by the method of regulated directional reception, a switching unit for the channels to be summed, a static correction unit, and a summing unit are connected in series between the magnetic drum recorder and the reproduction amplifier. To increase the reliability when transferring from operation with the method of reflected waves to seismic logging, a frequency selection unit is connected between the multichannel borehole probe and the magnetic drum recorder. To improve the quality of the recorded material, an electron beam unit for introducing static and dynamic corrections is connected between the reproduction amplifier and the drum with photographic paper.

SUB CODE: 08/ SUBM DATE: 05May65

Card 2/2

VYSOTSKIY, Yu.L. (Chelyabinsk)

Advanced methods of planning train operations. Zhel. dor. transp.
37 no.8:39-43 Ag '55. (MIRA 12:8)

1. Starshiy pomoshchnik nachal'nika operativno-rasporyaditel'nogo
otdela sluzhby dvizheniya Yuzhno-Ural'skoy dorogi.
(Railroads--Traffic)

VYSOTSKIY, Yu.L. (g.Chelyabinsk)

Evaluating the utilization of the locomotive power on long hauls.
Zhel.dor.transp. 42 no.5:31-34 My '60. (MIRA 13:9)
(Locomotives--Performance)